CLAIMS

What is claimed is:

1. A method for decoding an encoded video data stream, the method comprising:

(a) receiving a first portion of the encoded video data stream and a second portion of the encoded video data stream, wherein the first portion and the second portion are parts of one encoded symbol in the encoded video data stream;

(b) generating a concatenated video data stream comprising the first portion and the second portion; and

(c) decoding the concatenated video data stream.

2. The method according to claim 1, wherein the second portion is sequentially following the first portion in the encoded video data stream.

3. The method according to claim 1, wherein the second portion is not sequentially following the first portion in the encoded video data stream.

4. The method according to claim 1, wherein the receiving further comprises:

storing the first portion of the encoded video data stream in a first memory region; and

storing the second portion of the encoded video data stream in a second memory region.

5. The method according to claim 3, wherein the storing in the second memory region is performed upon determining that the first memory region is full.

6. The method according to claim 1, wherein the generating comprises:

serially outputting the first portion from the first memory region to a concatenator;

reading an address pointer pointing to a sequentially next encoded video data stream in the second memory;

serially outputting the second portion from the second memory starting with the sequentially next encoded video data stream;

receiving the second portion by a first selector;

serially outputting the second portion to the concatenator;

concatenating the first portion and the second portion in the concatenator;

serially outputting the concatenated video data stream to a decoder.

7. The method according to claim 6, wherein the first selector selects the amount of encoded data from the second portion to be serially outputted to the concatenator based on the size of the first portion.

8. The method according to claim 1, further comprising:

(d) receiving input from the decoder, the input associated with the size of the decoded video data stream.

9. The method according to claim 8, wherein the input determines the amount of concatenated video data stream to be serially outputted to the decoder.

10. A system for decoding an encoded video data stream, the data stream comprising a plurality of encoded symbols and a plurality of end indicators, the end indicators for separating portions of the encoded video data stream, the system comprising:

a first memory buffer for receiving a first portion of the encoded video data stream;

a second memory buffer for receiving a second portion of the encoded video data stream;

a concatenator for concatenating the first portion and the second portion to obtain a concatenated video data stream; and

a decoder for decoding the concatenated video data stream.

11. The system of claim 10, wherein the first portion and the second portion are part of the same encoded symbol.

12. The system of claim 10, wherein the second portion is not sequentially following the first portion in the encoded video data stream.

13. The system of claim 10, wherein the second memory buffer is configured to receive the second portion after the first memory buffer is full.

14. The system of claim 10, wherein the second memory buffer is configured to receive the second portion after the first memory buffer receives an end indicator after receiving a portion of the encoded video data stream.

15. The system of claim 10, wherein the first memory buffer is configured to save at least one of an indicator flag and a data size information, the indicator flag having an active state and an inactive state.

16. The system of claim 15, wherein the indicator flag is activated if the first memory buffer is full.

17. The system of claim 15, wherein the data size information comprises a data size of the second portion.

18. The system of claim 10, further comprising:

a selector memory, the selector memory adapted to receive a selection of encoded video data stream from the second portion; and

a selector, the selector adapted to serially output the selection of encoded video data stream from the second portion to the concatenator.

19. The system of claim 10, wherein the first memory region is adapted to sequentially output the first portion to the concatenator.

20. The system of claim 10, wherein the concatenator is adapted to receive the second portion after receiving the first portion.

21. The system of claim 10, further comprising:

a selector memory, the selector memory adapted to receive a selection of the concatenated video data stream from the concatenator; and

a selector, the selector adapted to serially output the selection of concatenated video data stream to the decoder.

22. The system of claim 10, wherein the decoder provides input, the input associated with the size of the decoded video data stream.

23. The system of claim 22, wherein the input from the decoder determines the amount of concatenated video data stream to be serially outputted to the decoder.